

Jinri **5N****580-600W**

SE5-72HBD

N-type HJT Bifacial Dual Glass
Solar Module**23.23%**

Max. Module Efficiency

HJT 2.0 TechnologyCombining gettering process and single-side $\mu\text{c-Si}$ technology to ensure higher cell efficiency and higher module power.**-0.26%/°C Pmax temperature coefficient**

More stable power generation performance and even better in hot climate.

SMBB design with Half-Cut Technology

Shorter current transmission distance, less resistive loss and higher cell efficiency.

Up to 90% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.

Sealing with PIB based sealant

Stronger water resistance, greater air impermeability to extent module lifespan.

Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt).

IEC62716 (Ammonia), IEC60068-2-68(Sand).

ISO 9001:2015/quality management system.

ISO 14001:2015/environmental management system.

ISO 45001:2018/occupation health safety management system.

ISO 50001:2011/energy management system.

IEC TS 62941-2016/PV industry quality management system.

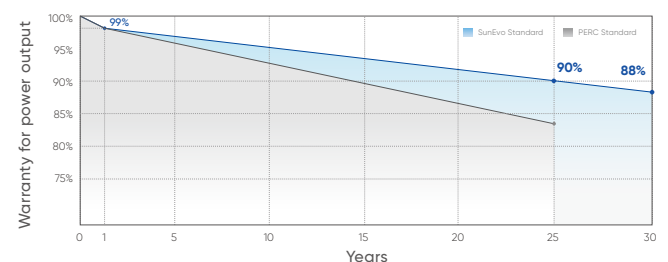
Quality Guarantee

25 year

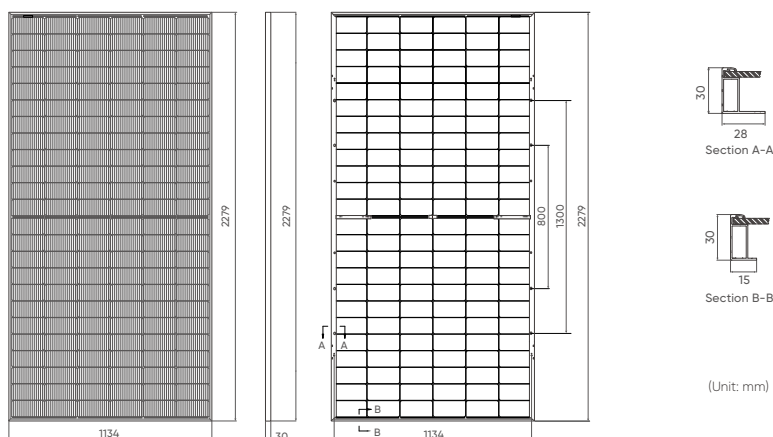
Materials Warranty

30 year

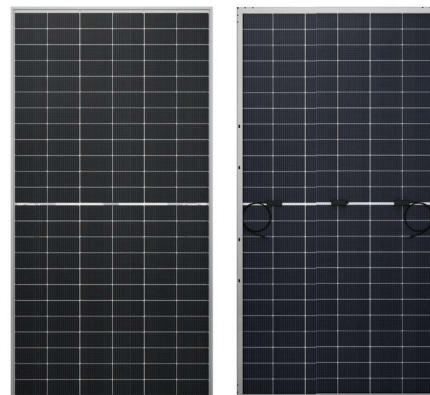
Power Warranty



Drawings



Product Image



Mechanical Characteristics

Solar Cells	N-type HJT
No. of Cells	144 (6×24)
Dimensions	2279 × 1134 × 30mm
Weight	31.5kg
Glass	Front: 2.0mm coated semi-tempered glass; Back: 2.0mm semi-tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
Output Cables	4mm ² , 300mm (+) / 300mm (-), Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa
Packaging	36pcs/box, 180pcs/20'GP, 720pcs/40'HQ

Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 DC (IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	0/+5W

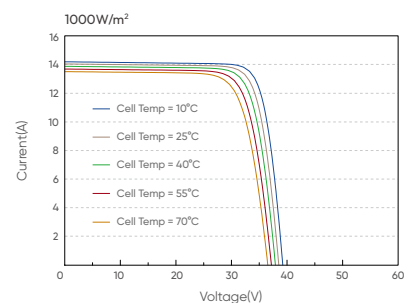
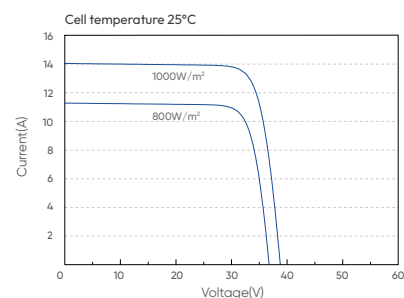
Temperature Characteristics

Nominal Operating Temperature (NMOT)	44±2°C
Temperature Coefficient of Pmax	-0.26%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.04%/°C

Electrical Parameters (STC*)

Module Type: SE5-72HBD	580	585	590	595	600
Maximum power (Pmax/W)	580	585	590	595	600
Open Circuit Voltage (Voc/V)	53.92	54.12	54.31	54.50	54.70
Short Circuit Current (Isc/A)	13.35	13.40	13.45	13.50	13.55
Voltage at Maximum power (Vmpp/V)	45.00	45.21	45.42	45.63	45.84
Current Maximum Power (Impp/A)	12.89	12.94	12.99	13.04	13.09
MODULE EFFICIENCY (%)	22.45	22.65	22.84	23.03	23.23

I-V Curve



Bifacial Output-Rearside Power Gain

5%	Maximum power (Pmax/W)	641	646	652	657	663
	Module Efficiency STC (%)	23.57	23.78	23.98	24.18	24.39
15%	Maximum power (Pmax/W)	667	673	679	684	690
	Module Efficiency STC (%)	25.82	26.05	26.27	26.48	26.71
25%	Maximum Power (Pmax/W)	725	731	738	744	750
	Module Efficiency STC (%)	28.06	28.31	28.55	28.79	29.04

1. Standard Test Conditions [STC]: irradiance 1000W/m²; AM 1.5; ambient temperature 25°C according to EN 60904-3;
 2. Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.